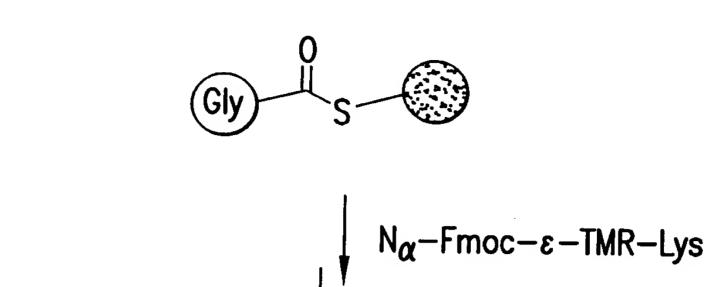
pl. No. 09/927,436; Group Art Unit: 1645
At. No. 0942.5300001/RWE/AGU; Batch No. N/A
Inventors: Tadayoni-Rebek et al.; Tel: 202/371-2600
Title: Highly Homogeneous Molecular Markers for
Electrophoresis



Tag-N-Boc-Gly

TMR

TMR

FIG.1

l. No. 09/927,436; Group Art Unit: 1645

No. 0942,5300001/RWE/AGU; Batch No. N/A Inventors: Tadayoni-Rebek et al.; Tel: 202/371-2600
Title: Highly Homogeneous Molecular Markers for Electrophoresis

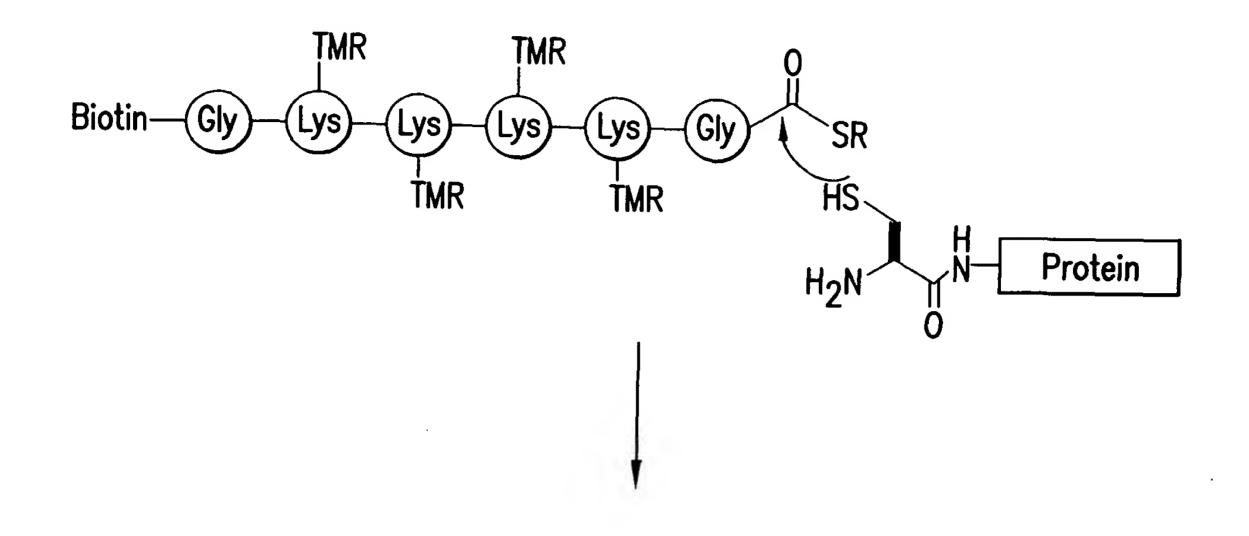
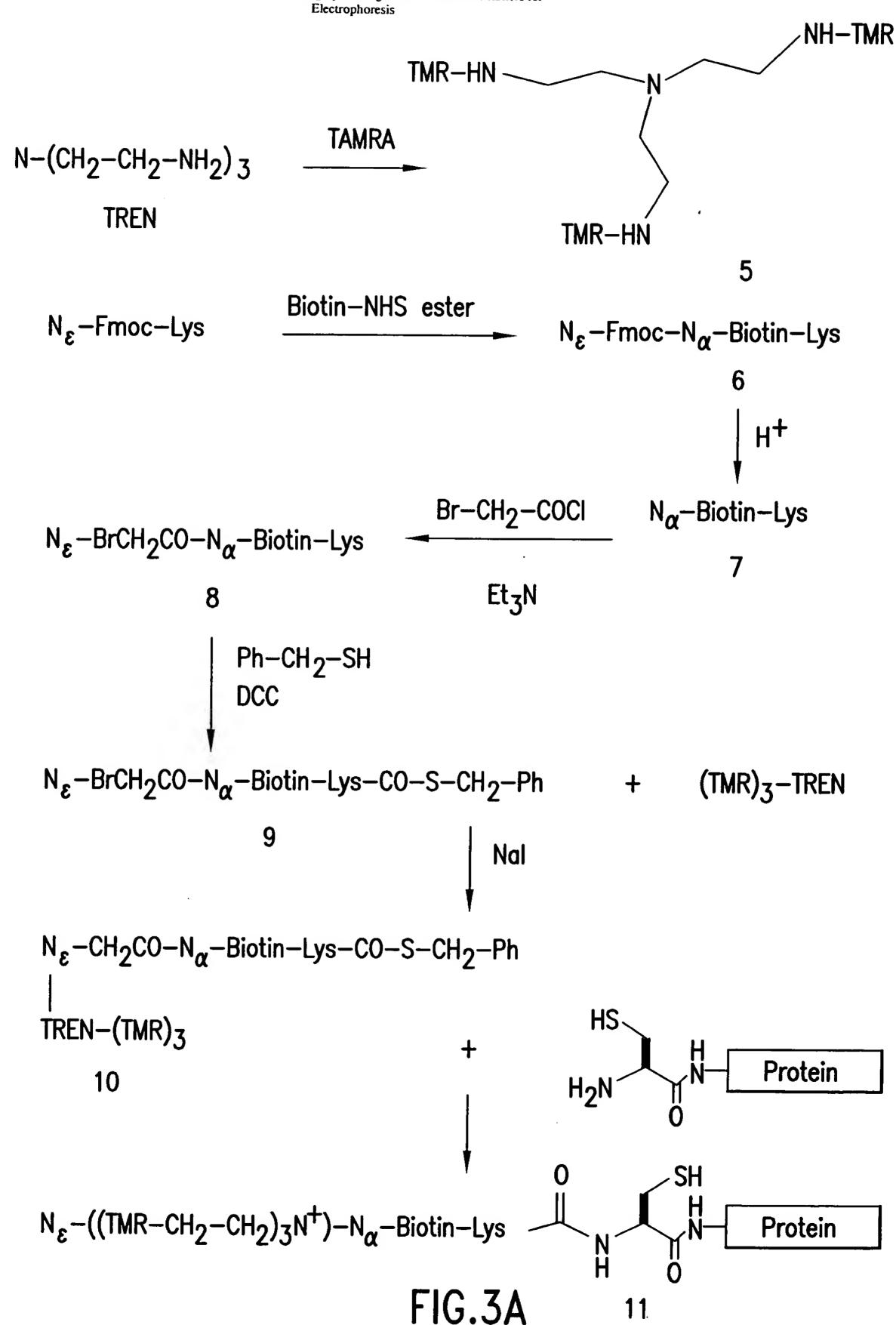




FIG.2



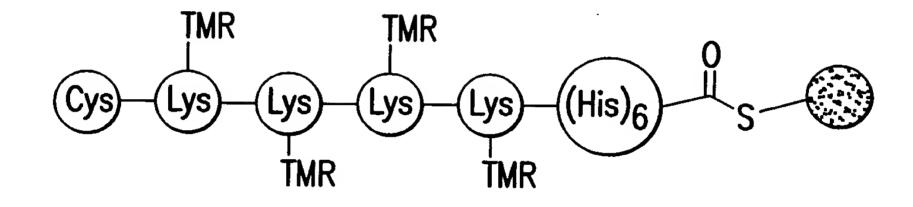
$$\begin{array}{c} BOC-HN-(CH_2)_6-COOH & \begin{array}{c} Ph-CH_2-SH \\ \hline \\ 12 \end{array} & \begin{array}{c} BOC-HN-(CH_2)_6-CO-S-CH_2-Ph \\ \hline \\ 3-ethyl \ carbodiimide \ MeI, \\ \hline \\ DMAP \end{array} & \begin{array}{c} 13 \\ \hline \\ TFA \end{array}$$

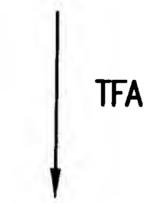
TMR-HN-
$$(CH_2)_6$$
-CO-S- CH_2 -Ph- H_3 + N- $(CH_2)_6$ -CO-S- CH_2 -Ph, CF_3 -COO-Et₃N

FIG.3B

Appl. No. 09/927,436; Group Art Unit: 1645
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$$N_{\alpha}$$
-Fmoc- ϵ -TMR-Lys





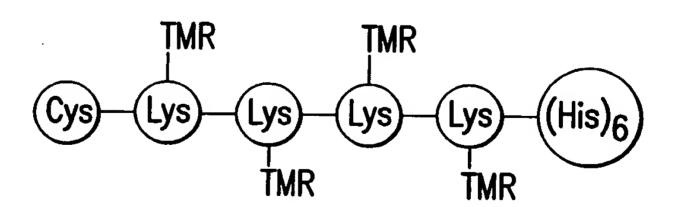
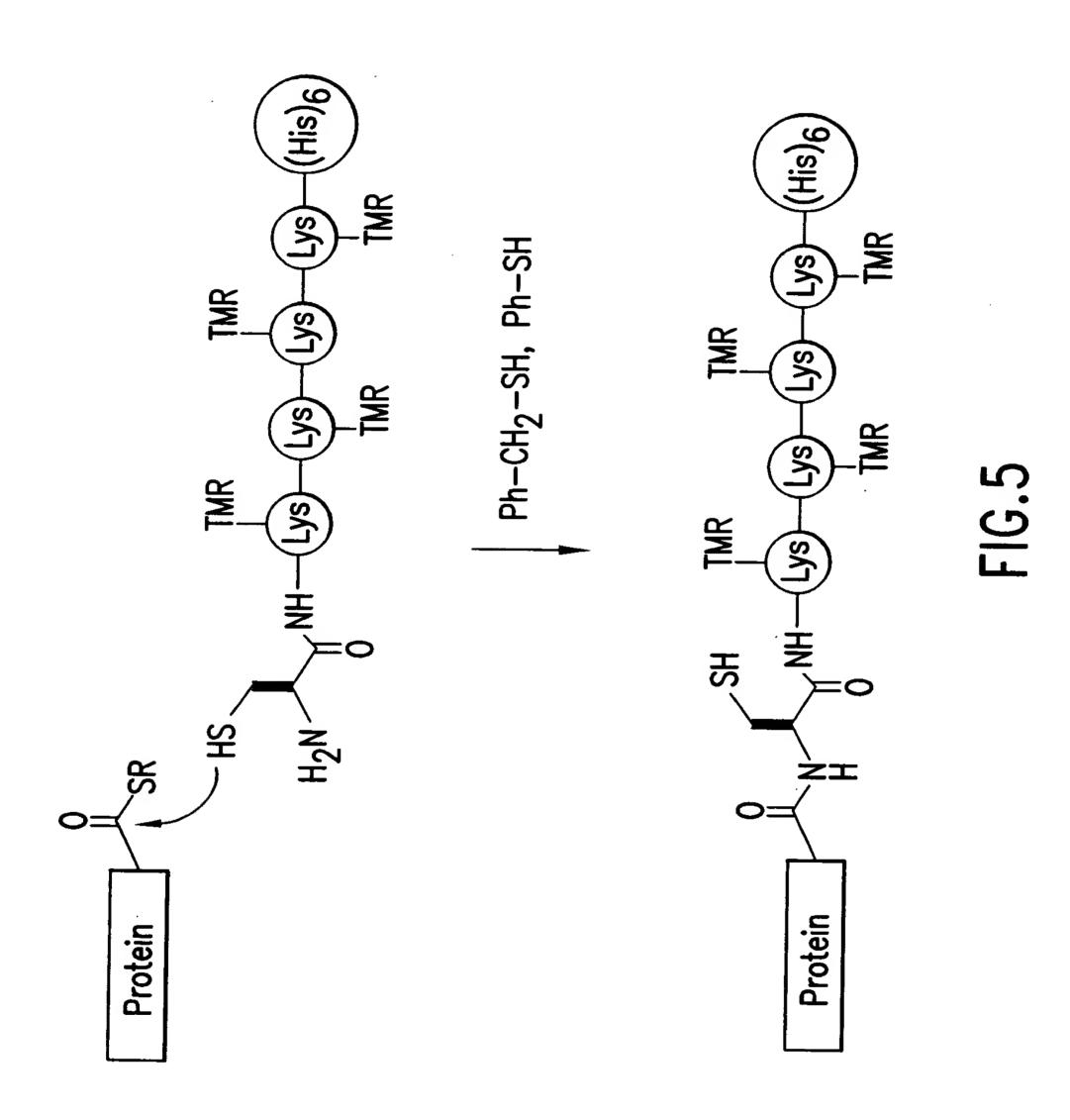


FIG.4

Appl. No. 09/927,436; Group Art Unit: 1645
Dkt. No. 0942.5300001/RWE/AGU; Batch No. N/A
Inventors: Tadayoni-Rebek et al; Tel: 202/371-2600
Title: Highly Homogeneous Molecular Markers for
Electrophoresis



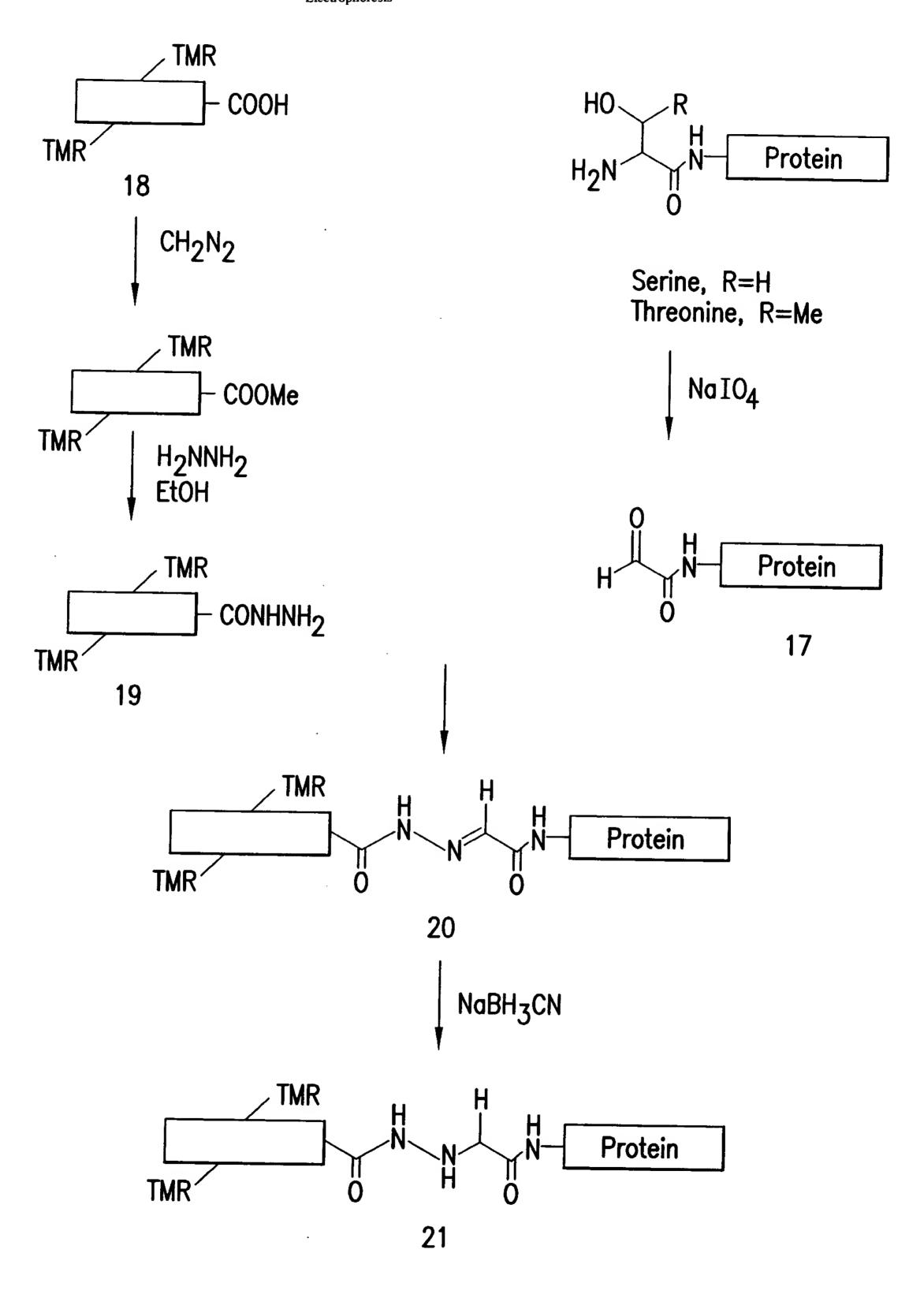
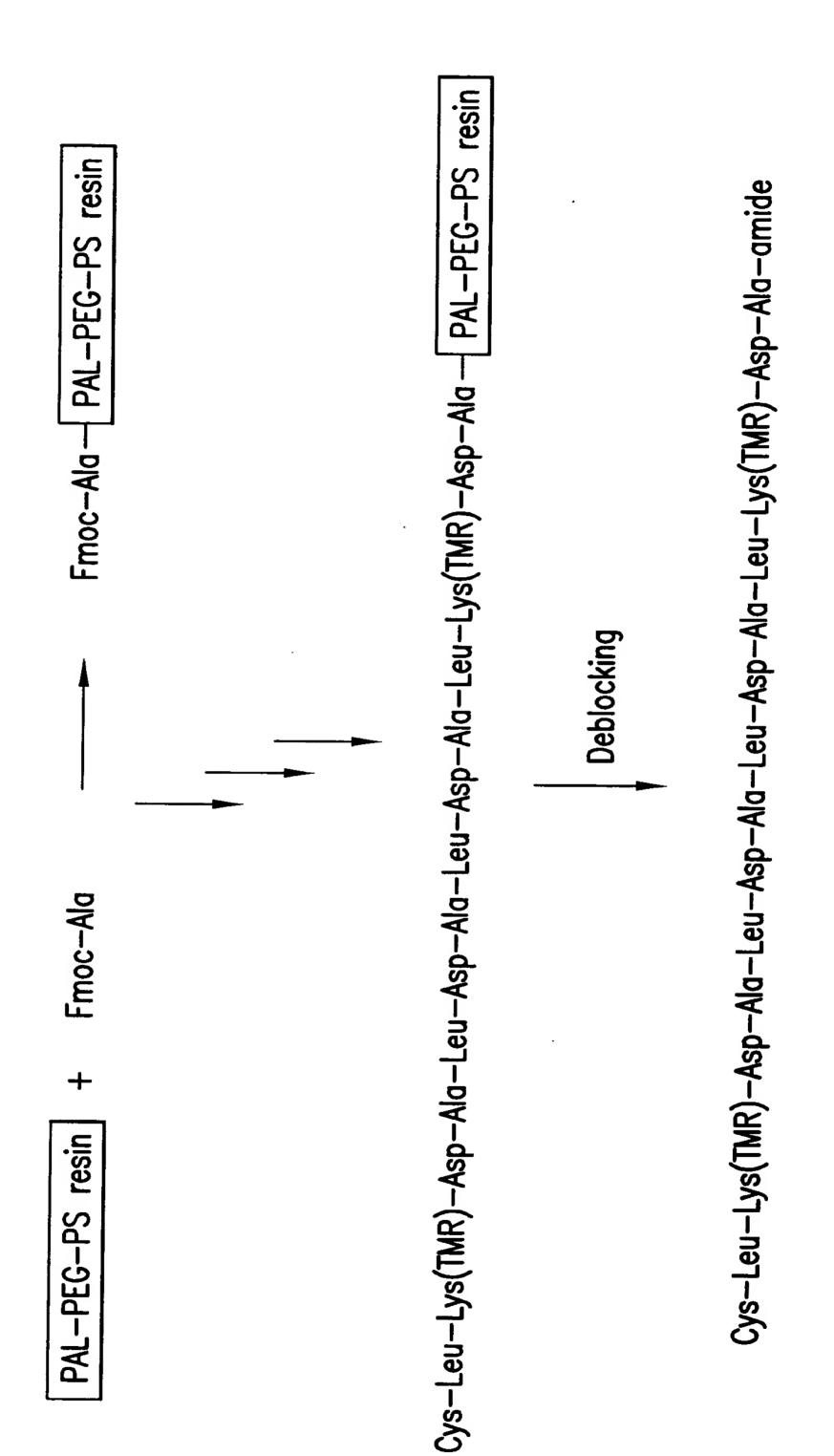
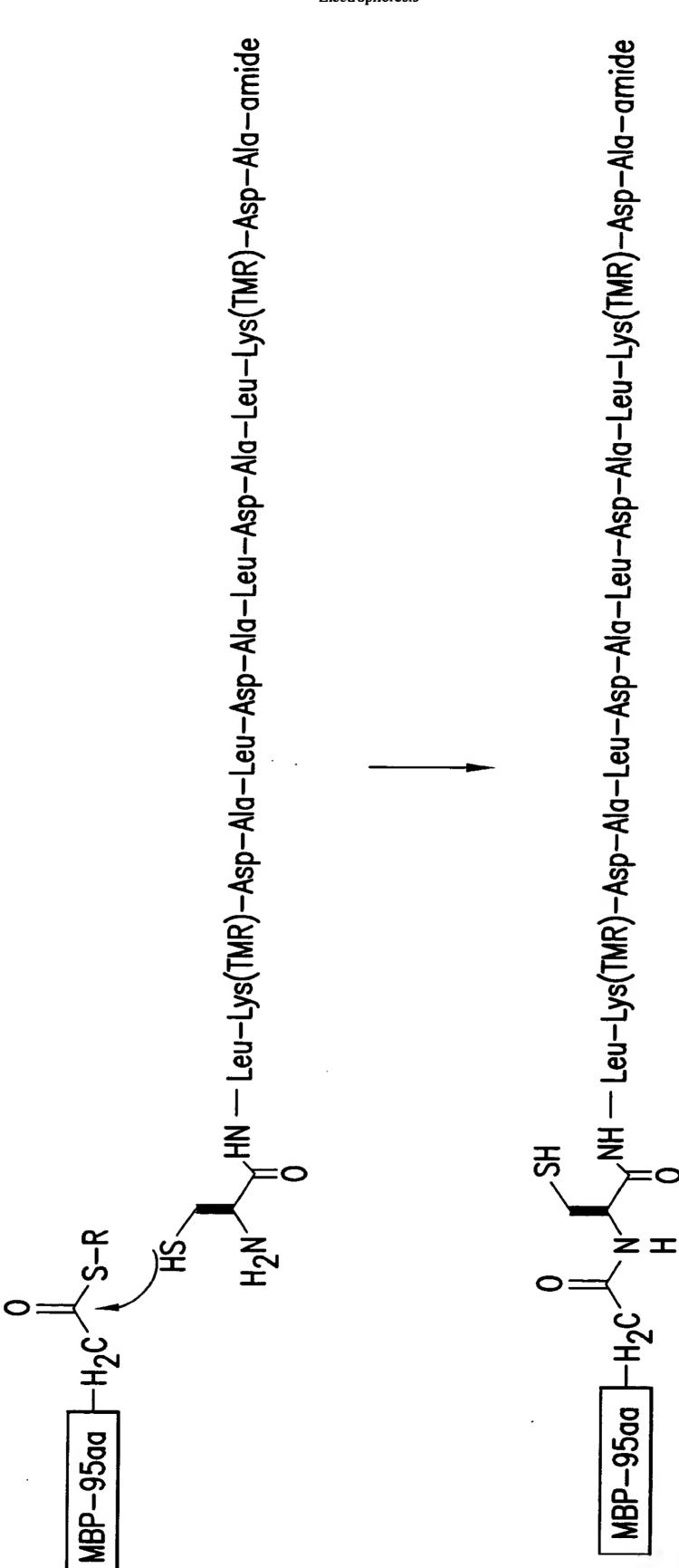


FIG.6



F | G



F16.2



FIG.10